PERMIT CHECK LIST

The following people have reviewed the permit:

Reviewing Permitting Engineer: _____

Air Inspector: _____

Air Compliance Manager: _____

Date: May 8, 2008

Source Name: Bayshore Concrete Products Corporation Registration No: 40086 Id. No.: 51-131-00003

Source Location: 1134 Bayshore Road, Cape Charles

Mail Address: Cape Charles, Virginia 23310-0230

Source Status: ____ Greenfield ✓ Currently operating

Source Classification: ___ Minor ✓ SynMinor ___ State Major ___ PSD Major ___ TV Major

Permit Action: Bayshore Concrete Products Corporation – Cape Charles Facility has requested a change to its NSR permit for the construction/installation of a new central mix concrete batch plant to be located at the existing prestressed-precast concrete products facility location on the Eastern Shore. The new batch plant will serve as a replacement to the currently operating concrete batch plant, which according to BCPC, will be dismantled and removed within a year after completion of the new concrete batch plant. In order to make the previous permit's HAP emission limits federally enforceable and to avoid possible major source status, a state operating permit (SOP) was drafted, which will include a public notice review.

Permit Action Program:

___ NSR ✓ SOP ___ TV ___ Maj HAP

Permit Action Type:

✓ Article 6 Modification ___ Significant Amendment

___ Minor Amendment/Modification ___Administrative Amendment ___ Renewal

___ State Major ___ PSD ___ Non-Attainment ___ General

Y (Y/N) Permit Includes All Emission Units at Source.

Y (Y/N) Permit Allows Source to avoid Title V/MACT/etc.

After this permit, source is: ___ Major (A) ___ Minor (B) ✓ Synthetic minor (SM)

(PM/PM_{10} Pollutants, SO_2 Pollutant, HAP Pollutants)

Permit Application Review

✓ Permit application submitted, or ___ Letter Request

Application Received Date: 01-25-2008

Application Complete Date: 04-03-2008 (Source supplied updated equipment list via telecon)

Permit Deadline Date: 07-02-2008

✓ Document Certification Form received

N/A Confidential information with sanitized copy. If yes, which sections:

___ throughputs ___ individual pollutants ___ flow diagrams ___ calculations

___ process descriptions ___ other (describe)

If yes, has claim been accepted by DEQ? (Y/N) - Date of letter:

N/A Copy of letter from local official for greenfield, or major modified sources

N/A Copy of letter sent to FLM if applicable. (Comments)

N/A Notification of Affected State(s)

This permit supersedes permits dated November 23, 1998, July 11, 2000, and June 12, 2001.

Regulatory Review (cont.)

Regulatory Review

BACT Determination (check one):

__✓__ Fabric filters @ 99 % efficiency for the control of PM/PM-10 and 0.5% S fuel for the control of SO_2 meets BACT, or

___ TV/SOP/BACT not applicable. (Explain)_____

__Y__ (Y/N) NSPS/MACT/NESHAPS Applicability: If Y, Subpart(s):

__Dc__ NSPS

_____ MACT

_____ NESHAPS

__Y__ (Y/N) Existing Rules (9 VAC 5 Chapter 40) Applicability: If Y, Rule(s): Rule 4-24 (9 VAC 5-40-3260 et seq.) Emission Standards for Solvent Metal Cleaning Operations Using Non-Halogenated Solvents

Toxic Pollutants (check one):

___ Exempt, or __✓__ in compliance with 9 VAC 5-60-220, or ___ not evaluated

Modeling (check one):

___ Attached (including background monitors), or

___ Copy of approval letter from modeling section,

__✓__ No modeling required by agency policy (Toxic throughputs unchanged from previous permit)

Site Suitability:

__✓__ Site suitable from an air pollution standpoint, inspection date: 06-26-2007.

__Y__ Calculation sheet(s) included

__N__ (Y/N) NSR Netting Comments (Explain Permit History):

__N__ (Y/N) (CAM) Compliance Assurance Monitoring Applicable

Permit includes: ___ Stack Testing ___ CEM ___ VEE by source

Public Participation

__Y__ (Y/N) Public Noticed. If yes, Public Notice Date:

___(Y/N) Public Notice Comments. If yes, number and nature of comments:

__N__ (Y/N) Public Hearing. If yes, Public Hearing Date:

EPA Review

__Y__ (Y/N) EPA Review. If yes, Date proposed permit sent to EPA_____.

___(Y/N) EPA Comments. If yes, give a brief summary_____.

Other Comments and Final Recommendations (attach memo or list below):

Comments: Bayshore Concrete Products Corporation – Cape Charles Facility operates a prestressed-precast concrete products facility consisting of a 270,000 ton/year concrete batch plant, an abrasive blasting booth operation, a stress/grouting operation, and a coating/adhesive application operation. The facility also has several boilers which are used in the facility's operations. The Source has submitted a permit application to install (to be located adjacent to the existing batch plant) and operate a central mix concrete batch plant capable of producing 270,000 tons/yr of concrete. The new concrete batch plant will serve as a replacement to the currently operating concrete batch plant, which has operated for the past 20+ years and, according to the Source, will be dismantled and removed from the facility within a year after the new plant becomes operational. The

Regulatory Review (cont.)

Source has requested that the current concrete production throughput set at 270,000 tons/yr remain unchanged. Therefore, to allow for the permitting of the new concrete batch plant, it will be necessary to apply the 270,000 tons/yr permitted throughput limit to both batch plants to cover the interim period when both are capable of producing concrete.

The current concrete batch plant is a central mix operation that utilizes Portland cement and newcem in the manufacturing of concrete for various structural beams, girders, piles, supports, columns, utility poles, etc. The Portland cement and newcem are received via pressurized railcars and then transferred to storage silos (two cement silos and one newcem silo). All of the wet-mixed concrete produced by the batch plant is utilized on-site by the facility (no off-site truck deliveries) and is dispensed by way of a yard truck to the various precast forms at the staging areas. Particulate emissions from the storage silos, hoppers, and mixers are controlled by means of a centralized dust collection fabric filter. The newcem storage silo has a separate baghouse located atop the silo. The facility does not have a crusher, so NSPS Subpart OOO requirements do not apply.

Particulate matter (PM/PM-10) is typically the only criteria pollutant of concern that requires emissions review for concrete batch plants. A permit applicability determination for the proposed concrete batch plant was performed by calculating the uncontrolled PM and PM-10 emission rates using 8,760 hours of concrete production (FA) and then subtracting the past actual emission rates (PA) to obtain each pollutant's net emission increase (i.e. NEI = FA – PA). Because this particular concrete batch plant is considered to be a new facility process, past actual emissions were set at zero (no previously enforceable permit restrictions on the emission units). Therefore, NEI = PTE at 8,760 hours. The proposed concrete batch plant has a maximum throughput rate of 125 tons of concrete per hour, which was used in the emissions calculations.

Potential to Emit Calculations for Permit Applicability Determination:

Uncontrolled PM emissions at 8,760 hours and based on 125 tons concrete produced per hr = 142.55 tons/yr = (FA)**
Past Actuals = 0 (no previously enforceable permit restrictions on batch plant) = PA
NEI = FA – PA: NEI = 142.55 tons/yr – 0 tons/yr = 142.55 tons PM/yr uncontrolled.
Uncontrolled PM-10 emissions at 8,760 hours and based on 125 tons concrete produced per hr = 62.17 tons/yr = (FA)**
Past Actuals = 0 (no previously enforceable permit restrictions on batch plant) = PA
NEI = FA – PA: NEI = 62.17 tons/yr – 0 tons/yr = 62.17 tons PM-10 tons/yr uncontrolled.
** Refer to attached spreadsheet for calculations of uncontrolled PM and PM-10 emission rates at 8,760 hours.

These calculations show that the uncontrolled PM and PM-10 emissions at 8,760 hours of concrete production are well above the exemption levels for modified sources per 9 VAC 5-80-1320 D (15 tons/yr for PM and 10 tons/yr for PM-10); therefore, this permit action will be processed as an Article 6 modification.

A BACT applicability determination was also performed for the proposed concrete batch plant, using the 270,000 tons/year of concrete production throughput limit.

Calculations for BACT Applicability Determination:

Uncontrolled PM emissions based on 270,000 tons concrete produced per year = 35.15 tons/yr = (FA)**
Past Actuals = 0 (no previously enforceable permit restrictions on batch plant) = PA
BACT NEI = FA – PA: BACT NEI = 35.15 tons/yr – 0 tons/yr = 35.15 tons PM/yr uncontrolled
Uncontrolled PM-10 emissions based on 270,000 tons concrete produced per year = 15.33 tons/yr = (FA)**
Past Actuals = 0 (no previously enforceable permit restrictions on batch plant) = PA
BACT NEI = FA – PA: BACT NEI = 15.33 tons/yr – 0 tons/yr = 15.33 tons PM-10 tons/yr uncontrolled
** Refer to attached spreadsheet for calculations of uncontrolled PM and PM-10 emission rates for 270,000 tons/yr.

Regulatory Review (cont.)

These calculations show that the PM and PM-10 emissions for a 270,000 tons/yr concrete throughput also exceed the exemption levels for modified sources in 9 VAC 5-80-1320 D; therefore BACT is required. Emission calculations (see attached spreadsheet) show that the fabric filters used to control emissions from the silos, batchers/hoppers, and mixers will be able to reduce particulate emissions to levels below those listed in 9 VAC 5-80-1320 D. Therefore, no additional BACT add-on controls are considered necessary.

The particulate emissions calculated in the previous permit for the grout batching operation used 1986 AP-42 emission factors. Based on 2006 revisions to these emission factors, both PM and PM-10 emissions from the grout batching operation were revisited to determine whether PM/PM-10 emission limits in the permit were necessary for the operation:

Grout Storage Silo Uploading:

Grout throughput set at 1,128 tons/yr (previously permitted)

Uncontrolled PM emissions based on AP-42 silo uploading emission factor of 0.72 lbs PM/ton cement (revised).

Uncontrolled PM-10 emissions based on AP-42 silo uploading emission factor of 0.46 lbs PM-10/ton cement (revised).

Baghouse with 99% control efficiency for control of particulate emissions from grout storage silo

1,128 tons/yr grout x 0.72 lbs PM/ton grout x 1 ton/2000 lbs = 0.4 tons/yr PM uncontrolled

1,128 tons/yr grout x 0.46 lbs PM-10/ton grout x 1 ton/2000 lbs = 0.3 tons/yr PM-10 uncontrolled

0.4 tons/yr PM uncontrolled x 0.01 (baghouse control efficiency) = 0.004 tons/yr PM controlled

0.3 tons/yr PM-10 uncontrolled x 0.01 (baghouse control efficiency) = 0.003 tons/yr PM-10 controlled

Grout Mixing Vessel:

Grout throughput set at 1,128 tons/yr (previously permitted)

PM emissions based on AP-42 weigh hopper loading emission factor of 0.0051 lbs PM/ton cement (revised).

PM-10 emissions based on AP-42 weigh hopper loading emission factor of 0.0024 lbs PM-10/ton cement (revised).

1,128 tons/yr grout x 0.0051 lbs PM/ton grout x 1 ton/2000 lbs = 0.003 tons/yr PM

1,128 tons/yr grout x 0.0024 lbs PM-10/ton grout x 1 ton/2000 lbs = 0.001 tons/yr PM-10

Grout Batching Operation:

PM emissions = 0.004 tons/yr + 0.003 tons/yr = 0.007 tons/yr PM

PM-10 emissions = 0.003 tons/yr + 0.001 tons/yr = 0.004 tons/yr PM-10

The PM and PM-10 emissions for the grout batching operation, as based on the revised AP-42 emission factors, remain well below their respective 9 VAC 5-80-1320 D. threshold levels. Because these emissions are less than 0.5 tons per year they are not included in this permit (as was the case for the previous permit).

The VOC emissions associated with the solvents used for cleaning purposes in the non-halogenated solvent parts-washers are negligible; however, work practices as outlined in Rule 4-24 guidelines (9 VAC 5-40-3290 C) have been placed into the permit (Condition #5) due to the fact that the facility has previously received a RCA (2002) in regards to leaving lids on these parts-washers up while not in use.

The permit writer was contacted by Mr. Donald Kellam of Bayshore Concrete Products Corporation on 04-03-2008 in response to a DEQ request to update/verify the facility's equipment inventory from that of the previously issued 06-12-2001 permit. Based on verbal input from Mr. Kellam, several emission units are either non-operational or have been physically removed from the facility site:

#4 fuel oil-fired 12.95 MMBtu/hr Cleaver Brooks Model CB 200-400 boilers (JFK area #1) – Unit is non-operational but still remains in place (remains permitted).

Regulatory Review (cont.)

#4 fuel oil-fired 12.5 MMBtu/hr Superior Model 6131-6571 boiler (Girder area #1) – Unit removed from the facility.

Two (2) propane-fired 5.0 MM Btu/hr (each) Johnson Model SP-5000 steam generator units for curing concrete – Both of these units removed from the facility.

Two (2) propane-fired 7.0 MM Btu/hr (each) Johnson Model SP-7000 steam generator units for curing concrete – Both of these units removed from the facility.

Permit conditions added/updated/removed and are as follows: updated *Equipment List* (Condition #2); added *Emission Controls* (Condition #4 table) for the control of particulates from the operation of the central mix concrete batch plants; added *VOC Work Practice Standards* (Condition #6); added *item e* to *Fugitive Dust Emission Controls* (Condition #7) for the dismantling and removal of the central mix batch plant BCP #A; added *Emission Limits* (Condition #26) for the combined operation of the two central mix concrete batch plants; revised *Initial Notifications* (Condition #32) for inclusion of the anticipated and actual dates regarding commencement and completion of the dismantling and removal of the BCP #A central mix concrete batch plant; and removed the propane fuel throughput portion from the *Fuel Throughput* (Condition #20 in previous permit) and the *Emission Limits* (Condition #29 in previous permit) for the four (4) Johnson steam-generator units using the propane fuel as these units have since been removed from the facility and the propane boilers now used in their place are exempted (by size) from permitting requirements. The permit was also revised (at request of compliance staff) to change the monitoring requirements for particulate emissions to that of visible emission observations and record-keeping on all fabric filter control devices (Conditions #10, #14, and #17) rather than basing visible emission compliance on the reliance of pressure differential gauge readings. Therefore, the requirement for magnehelic gauges on the fabric filters and their subsequent monitoring was removed from the permit in lieu of visible emissions monitoring and record-keeping on all fabric filters, exhaust vents, and ducts. *Fugitive Dust Emission Controls* (Condition #11) for the stress and grout operations were revised from those outlined in the previous permit to remove *item a.*, as the grouting operation is now completely self-contained within an enclosed building structure and the need for possible wet suppression (or equivalent) of the surrounding ground surface is no longer an appropriate control measure. This permit also incorporates current permit boilerplate language and tabular formatting.

In order to make the HAP emission limits from the previous 06-12-2001 permit federally enforceable and to avoid possible major source status on them, a state operating permit (SOP) was drafted, which will include a 30-day public notice review period. The installation of the new concrete batch plant will be handled as an Article 6 modification, as the uncontrolled PTE for PM/PM-10 from the proposed concrete batch plant are above the modified source exemption levels in 9 VAC 5-80-1320 D. The NSR Article 6 permit conditions will be incorporated directly into the new SOP for the facility.

Regulatory Review (cont.)

Final Recommendation: Recommend Approval.

Environmental Engineer's Signature: _____

Air Permit Manager's Signature: _____

June xx, 2008

Mr. John E. Dobbs, P.E., SE
President / CEO
Bayshore Concrete Products Corporation
1134 Bayshore Road
Cape Charles, Virginia 23310-0230

Location: Northampton County
Registration No.: 40086

Dear Mr. Dobbs:

Attached is a state operating permit (SOP) to operate a prestressed-precast concrete products facility at Bayshore Concrete Products Corporation located in Cape Charles, in accordance with the provisions of the Virginia State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. Permit conditions involving the construction and installation of the new 270,000 ton/year concrete batch plant, as required by 9 VAC 5, Chapter 80, Article 6 (Permits for New and Modified Stationary Sources), are included in this permit to operate. This permit supersedes your NSR permit dated June 12, 2001.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and/or civil charges. Please read all permit conditions carefully.

In the course of evaluating the application and arriving at a final decision to approve the project, the Department of Environmental Quality (DEQ) deemed the application complete on April 3, 2008 and solicited written public comments by placing a newspaper advertisement in the **Newspaper** on _____. The required comment period, provided by 9 VAC 5-80-1170 D expired on _____.

This permit approval to modify and operate shall not relieve Bayshore Concrete Products Corporation of the responsibility to comply with all other local, state, and federal permit regulations.

The Board's Regulations as contained in Title 9 of the Virginia Administrative Code 5-170-200 provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this case decision notice was mailed or delivered to you. 9 VAC 5-170-200 provides that you may request direct consideration of the decision by the Board if the Director of the DEQ made the decision. Please consult the relevant regulations for additional requirements for such requests.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal of this decision by filing a Notice of Appeal with:

David K. Paylor, Director
Department of Environmental Quality
P. O. Box 1105
Richmond, VA 23218-1105

If this permit was delivered to you by mail, three days are added to the thirty-day period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for information on the required content of the Notice of Appeal and for additional requirements governing appeals from decisions of administrative agencies.

If you have any questions concerning this permit, please contact James A. White Jr. at (757) 518-2180 or by e-mail at **jawhite@deq.virginia.gov**.

Sincerely,

Jane A. Workman
Air Permit Manager

jaw/jim/Bayshore Concrete Products Corp_40086SOP.doc

Attachment: Permit

cc: Director, OAPP (electronic file submission)
Manager, Data Analysis (electronic file submission)
Chief, Air Enforcement Branch (3AP13), U.S. EPA, Region III
Manager/Inspector, Air Compliance

STATIONARY SOURCE PERMIT TO OPERATE
This permit includes designated equipment subject to
New Source Performance Standards (NSPS).

This permit supersedes your permits dated
November 23, 1998, July 11, 2000, and June 12, 2001.

In compliance with the Federal Clean Air Act and the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution,

Bayshore Concrete Products Corporation
1134 Bayshore Road
Cape Charles, Virginia 23310-0230
Registration No.: 40086

is authorized to modify and operate

a prestressed-precast concrete products facility

located at

1134 Bayshore Road
Cape Charles, Virginia

in accordance with the Conditions of this permit.

Approved on **DRAFT PERMIT.**

_____
Francis L. Daniel

Permit consists of 16 pages.
Permit Conditions 1 to 42.

INTRODUCTION

1. This permit approval is based on the permit applications dated November 6, 1981, May 11, 1989, September 24, 1993, February 20, 1997, March 31, 1998, November 20, 1998, February 24, 2000, May 15, 2000, and January 23, 2008, including amendment information dated December 15, 1981, November 19, 1993, December 2, 1993, January 28, 1994, April 7, 1997, May 15, 1997, June 17, 1997, February 18, 1998, March 4, 1998, August 6, 1998, September 29, 1998, June 29, 2000, July 7, 2000, August 2, 2000, August 22, 2000, September 5, 2000, November 27, 2000, December 22, 2000, January 9, 2001, March 1, 2001, March 2, 2001, March 19, 2001, February 26, 2008, and supplemental information dated March 24, 2008 and April 3, 2008 (telephone conversation with Bayshore regarding equipment inventory at facility). Any changes in the permit application specifications or any existing facilities which alter the impact of the facility on air quality may require a permit. Failure to obtain such a permit prior to construction may result in enforcement action.

   Words or terms used in this permit shall have meanings as provided in 9 VAC 5-10-10 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. The regulatory reference or authority for each condition is listed in parentheses ( ) after each condition.

   Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to requests by the DEQ or the Board for information to include, as appropriate: process and production data; changes in control equipment; and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact.

   The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, § 2.2-3700 through 2.2-3714 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9 VAC 5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.

PROCESS REQUIREMENTS

2. **Equipment List** – Equipment at this facility consists of the following:

Equipment to be Constructed/Installed:			
Reference No.	**Equipment Description**	**Rated Capacity**	**Federal Requirements**
Central Mix Concrete Batch Plant #2 Standley Batch Systems, Inc.	Two (2) – Cement storage silos	195 tons (each)	None
	Two (2) – Cement supplement storage silos	170 & 195 tons	None
	One (1) – 12’ x 12’ Aggregate loader hopper	25 tons	None
	Conveyor system for uploading aggregates to storage bins	Variable	None
	Six (6) – Elevated aggregate material storage bins	135 tons (each)	None
	Six (6) – Aggregate batchers w/weigh scale system	12 tons (each)	None
	Conveyor system for transfer of aggregates from batchers to holding hoppers located at bi-level mixer platform	Variable	None
	Two (2) – Aggregate holding hoppers at mixer platform	12 tons (each)	None
	Two (2) – Cement batchers w/weigh scale systems	12 tons (each)	None
	Two (2) – Water batchers for wet-mix	225 gal (each)	None
	Two (2) – Concrete batch mixers	12 tons (each)	None
	Wet concrete load-out area with two (2) flex-mud chutes	125 tons/hr	None

Equipment permitted prior to the date of this permit:				
Reference No.	**Equipment Description**	**Rated Capacity**	**Federal Requirements**	**Permit Date**
Central Mix Concrete Batch Plant #1 Erie-Strayer Mfg. Batch Plant (BCP #A)	One (1) – Newcem storage silo	180 tons	None	11-23-1998
	Two (2) – Cement storage silos	180 & 200 tons	None	05-26-1989
	Two (2) – Concrete weigh hoppers	10 tons (each)	None	05-26-1989
	Two (2) – Concrete batch mixers	8 tons (each)	None	05-26-1989
Blasting/Coating Operations (BCP #B)	One (1) – Metal shot blasting booth	12,000 wire cages/yr	None	02/10/1994
	One (1) – Spray booth for application of powdered epoxy coating media	12,000 wire cages/yr	None	11-23-1998
Stress & Grouting Operations (BCP #C)	One (1) – Cementateous grout storage silo	23.5 tons	None	06-12-2001
	One (1) – Agitator grout mixing vessel with lid cover	1,128 tons/yr	None	06-12-2001
Steam Generating Operations	One (1) – #4 fuel oil-fired Cleaver Brooks Model CB-400-350 boiler (Pole area #1)	14.65 MMBtu/hr	None	11-23-1998
	One (1) – #4 fuel oil-fired Cleaver Brooks Model CB 200-400 boiler (JFK area #1)	12.95 MMBtu/hr	None	06-19-1997
	One (1) – #4 fuel oil-fired Superior Model 6131-6569 boiler (Pole area #2)	12.5 MMBtu/hr	None	11-23-1998
	One (1) – #4 fuel oil-fired Cleaver Brooks Model CB 400-300 boiler (JFK area #2)	12.55 MMBtu/hr	NSPS Subpart Dc	07-11-2000

Equipment installed prior to the date of this permit:				
Reference No.	**Equipment Description**	**Rated Capacity**	**Federal Requirements**	**Installation Date**
Machine Shop	One (1) – non-halogenated cold solvent parts washer	60 gallons solvent	None	08-2007
Tool Room	One (1) – non-halogenated cold solvent parts washer with internal solvent tank	15 gallons solvent	None	08-2003
Spinner Area	One (1) – non-halogenated cold solvent parts washer with internal solvent tank	23 gallons solvent	None	08-2003

Equipment Exempt from Permitting:				
Reference No.	**Equipment Description**	**Rated Capacity**	**Exemption Citation**	**Exemption Date**
Steam Generating Operations	One (1) – propane-fired Cleaver Brooks Model CB 100-350 boiler (Girder area #2)	11.72 MMBtu/hr	9 VAC 5-80-1320 B.1	01-09-2002
	One (1) – propane-fired Cleaver Brooks Model CB 700-300 boiler for concrete curing purposes	12.55 MMBtu/hr	9 VAC 5-80-1320 B.1	08-23-2004

Specifications included in the permit under this Condition are for informational purposes only and do not form enforceable terms or conditions of the permit.
(9 VAC 5-80-850)

3. **Requirements by Reference** – Except where this permit is more restrictive than the applicable requirement, the NSPS equipment as described in Condition 2 above shall be operated in compliance with the requirements of 40 CFR Part 60, Subpart Dc.
   Note: All applicable requirements of 40 CFR Part 60, Subpart Dc may not be specifically listed in this permit. The permittee should refer to the applicable regulation for additional requirements not included in this permit.
   (9 VAC 5-80-850, 9 VAC 5-50-400, and 9 VAC 5-50-410)

4. **Emission Controls** – Particulate emissions from the operation of the prestressed-precast concrete products facility shall be controlled as follows:

Emission Unit Source	Pollution Control Device(s)
Concrete Batch Plant #1 – Two (2) Portland cement storage silos, weigh hoppers, batchers, and mixers	Centralized dust collection fabric filter with VEE monitoring required
Concrete Batch Plant #1 – Newcem storage silo	Fabric filter baghouse with VEE monitoring required
Stress & Grout Operations – Cementateous grout storage silo	Fabric filter baghouse with VEE monitoring required
Blasting/Coating Operations – Metal shot blasting booth	Fabric filter baghouse with VEE monitoring required
Blasting/Coating Operations – Spray booth coating operations	Fabric filter baghouse with VEE monitoring required
Concrete Batch Plant #2 – Mixer #1 and batcher/hopper #1	Fabric filter baghouse (Stack # 001) with VEE monitoring required
Concrete Batch Plant #2 – Mixer #2 and batcher/hopper #2	Fabric filter baghouse (Stack # 002) with VEE monitoring required
Concrete Batch Plant #2 – Portland cement storage silos	Fabric filter baghouse for each silo (Stack #s 003 & 004) with VEE monitoring required
Concrete Batch Plant #2 – Cement supplement storage silos	Fabric filter baghouse for each silo (Stack #s 005 & 006) with VEE monitoring required

   The pollution control devices listed in the table above shall be provided with adequate access for inspection and maintenance and shall be in operation whenever the associated process equipment is operating.
   (9 VAC 5-80-850, 9 VAC 5-50-90, and 9 VAC 5-50-260)

5. **Emission Controls** – Each of the non-halogenated solvent parts-washers shall be operated in compliance with 9 VAC 5 Chapter 40, Part II, Article 24 (Rule 4-24), *Emission Standards for Solvent Metal Cleaning Operations Using Non-Halogenated Solvents*, including, but not limited to the following:

   a. Each parts-washer shall be provided with a cover that can be operated with one hand;

   b. External or internal drainage facilities should be provided to collect and return the solvent to a closed container or a solvent cleaning machine. If solvent volatility is greater than 0.6 psi measured at 100^{o}F, then the drainage facilities should be internal so that parts are enclosed under the cover while draining;

   c. Any solvent spray should be a solid, fluid stream (not fine, atomized or shower type spray) and at a pressure which does not cause excessive splashing;

   d. A permanent label, summarizing the operating procedures should be placed on or near the parts-washer;

e. Operating procedures:

i. Waste solvent should not be disposed of or transferred to another party, such that more than 20 percent of the waste (by weight) can evaporate into the atmosphere. Store waste solvent only in closed containers;

ii. Covers should be closed whenever not handling parts in the cleaner; and

iii. Cleaned parts should drain for at least 15 seconds or until dripping ceases.

f. Disposal of waste solvent shall be by reclamation (either by outside services, incineration, or in-house).
(9 VAC 5-80-850 and 9 VAC 5-40-3290 C)

6. **VOC Work Practice Standards** – At all times the disposal of volatile organic compounds (VOC) shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, discarded in sewers which are not connected to a treatment plant, stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution practices for minimizing emissions.
(9 VAC 5-50-20 F and 9 VAC 5-80-850)

CENTRAL MIX CONCRETE BATCH PLANTS

7. **Fugitive Dust Emission Controls** – Fugitive dust emission controls shall include the following, or equivalent, as approved by the DEQ:

a. Dust from material handling, open storage stockpiles and conveying equipment, shall be controlled by wet suppression or equivalent as approved by the DEQ;

b. All material being stockpiled shall be kept adequately moist to control dust during storage and handling or covered at all times to minimize emissions;

c. Dust from haul roads and traffic areas shall be controlled by the application of asphalt, water, suitable chemicals, or equivalent methods approved by the DEQ;

d. Reasonable precautions shall be taken to prevent deposition of dirt on public roads and subsequent dust emissions. Dirt, product, or raw material spilled or tracked onto paved surfaces shall be promptly removed to prevent particulate matter from becoming airborne; and

e. Use of water or chemicals for control of dust in the demolition of existing buildings and/or structures (i.e.: the dismantling and removal of the central mix concrete batch plant BCP #A).
(9 VAC 5-50-90, 9 VAC 5-80-850, and 9 VAC 5-50-260)

8. **Production** – Combined concrete production from the central mix concrete batch plants shall not exceed 270,000 tons per year (135,000 cubic yards per year), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-850)

9. **Visible Emission Limit** – Visible emissions from the vents, exhaust ducts, and fabric filter control devices serving the central mix concrete batch plants shall not exceed five (5) percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.
(9 VAC 5-80-850, 9 VAC 5-50-260, and 9 VAC 5-50-410)

10. **Monitoring Visible Emissions** – The permittee shall monitor the exhaust duct or vent of each fabric filter control device serving the central mix concrete batch plants no less than once per week, for at least a one-minute period during normal working operations, and during the uploading of bulk concrete mix ingredients to the storage silos from railcar/vehicle deliveries, to determine if there are any visible emissions. The presence of visible emissions shall indicate the need for prompt corrective action. The permittee shall maintain a record log of the observations made. The record log shall include the name of the observer, the date and time of the observations, the presence of visible emissions or lack thereof, and the date and time of any corrective actions taken whenever visible emissions were observed. These records shall be available for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-80-850 and 9 VAC 5-50-260)

STRESS & GROUT OPERATIONS

11. **Fugitive Dust Emission Controls** – Fugitive dust emission controls shall include the following, or equivalent, as approved by the DEQ:

    a. Dust from the operation of the grout-mixing vessel shall be controlled by means of a lid cover and use of good operating practices and mixing procedures.

    (9 VAC 5-50-90, 9 VAC 5-80-850, and 9 VAC 5-50-260)

12. **Throughput** – The throughput of grout shall not exceed 1,128 tons per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-850)

13. **Visible Emission Limit** – Visible emissions from the vents, exhaust ducts, and fabric filter control device serving the grout storage silo shall not exceed five (5) percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.
(9 VAC 5-80-850, 9 VAC 5-50-260, and 9 VAC 5-50-410)

14. **Monitoring Visible Emissions** – The permittee shall monitor the exhaust duct or vent of the fabric filter control device serving the grout storage silo no less than once per week, for at least a one-minute period during normal working operations, and during the uploading of bulk grout cement to the storage silo from railcar/vehicle deliveries, to determine if there are any visible emissions. The presence of visible emissions shall indicate the need for prompt corrective action. The permittee shall maintain a record log of the observations made. The record log shall include the name of the observer, the date and time of the observations, the presence of visible emissions or lack thereof, and the date and time of any corrective actions taken whenever visible emissions were observed. These records shall be available for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-80-850 and 9 VAC 5-50-260)

ABRASIVE BLASTING / COATING / ADHESIVE OPERATIONS

15. **Throughput** – The throughput of steel wire cages cleaned in the blasting booth shall not exceed 12,000 wire cages per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-850)

16. **Visible Emission Limit** – Visible emissions from the vents, exhaust ducts, and fabric filter control devices serving the blasting booth and the powdered epoxy coating spray booth shall not exceed five (5) percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.
(9 VAC 5-80-850, 9 VAC 5-50-260, and 9 VAC 5-50-410)

17. **Monitoring Visible Emissions** – The permittee shall monitor the exhaust ducts or vents of the fabric filter control devices serving the blasting booth and powdered epoxy coating spray booth no less than once per week, for at least a one-minute period during normal working operations to determine if there are any visible emissions. The presence of visible emissions shall indicate the need for prompt corrective action. The permittee shall maintain a record log of the observations made. The record log shall include the name of the observer, the date and time of the observations, the presence of visible emissions or lack thereof, and the date and time of any corrective actions taken whenever visible emissions were observed. These records shall be available for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-80-850 and 9 VAC 5-50-260)

18. **Chemical Adhesives, Coatings, and Epoxies** – The approved chemical adhesives, coatings, and epoxies for use in the concrete pile production process are as follows:

    1. Saunders EP-3T (Parts A & B), manufactured by E-Bond Epoxies, Inc.;
    2. Saunders EP-3 High Strength, Moisture Insensitive Epoxy Adhesive (A & B), manufactured by Saunders Oil Company;
    3. ATS-42 (Silane), manufactured by Advanced Chemical Technologies;
    4. Laminac 4116, Unsaturated Polyester Resin, manufactured Ashland Chemical Company;
    5. Cadox M-50a, manufactured by Akzo Nobel Chemicals, Inc.;

6. EP4, E-Bond 570 HI MOD, Epoxy Adhesive Resin (Part A) and Superstick Hardener (Part B), manufactured by E-Bond Epoxies, Inc.;
7. EP5, E-Bond 520 LO MOD LV Superstick, Epoxy Resin (Part A) and Hardener (Part B), manufactured by E-Bond Epoxies, Inc.;
8. EP6, E-Bond 560 LOW MOD GEL Superstick, Epoxy Resin (Part A) and Hardener (Part B), manufactured by E-Bond Epoxies, Inc.; and
9. Copper Black No. 775, Epoxy (Part A) and (Part B), manufactured by Coopers Creek Chemical Corporation.

A change in the chemical use or chemical composition of the products listed above may require a permit to modify and operate.
(9 VAC 5-80-850)

19. **Chemical Adhesive, Coating, and Epoxy Throughputs** – The maximum throughputs for the chemical products listed in Condition 18 shall not exceed the following limits, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months:

Chemical Product	Hourly Usage Rate	Annual Usage Rate
Saunders EP-3T (Parts A & B)	1.0 gal/hr	2,000 gal/yr
Saunders EP-3 (Parts A & B)	1.0 gal/hr	2,000 gal/yr
ATS-42 (Silane)	5.0 gal/hr	6,050 gal/yr
Laminac 4116	3.2 gal/hr	5,250 gal/yr
Cadox M-50a	0.12 gal/hr	192 gal/yr
EP4 (Parts A & B)	0.25 gal/hr	500 gal/yr
EP5 (Parts A & B)	1.0 gal/hr	2,000 gal/yr
EP6 (Parts A & B)	0.25 gal/hr	500 gal/yr
Copper Black No. 775 (Parts A & B)	1.0 gal/hr	5,000 gal/yr

(9 VAC 5-80-850)

BOILER OPERATIONS

20. **Fuel** – The approved fuels for use in the boilers are residual oil and liquefied petroleum gas (propane). A change in the fuel may require a permit to modify and operate.
(9 VAC 5-80-850)

21. **Fuel Throughput** – The combined operation of the residual oil-fired boilers shall consume no more than 1,623,000 gallons of residual oil per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-850 and 9 VAC 5-50-260)

22. **Fuel** – The residual oil shall meet the specifications below:

RESIDUAL OIL which meets the ASTM D396 specification for # 4 fuel oil:

Maximum sulfur content per shipment: 0.5 %

(9 VAC 5-80-850)

23. **Fuel Certification** – The permittee shall obtain a certification from the fuel supplier with each shipment of residual oil. Each fuel supplier certification shall include the following:

a. The name of the fuel supplier;

b. The date on which the residual oil was received;

c. The volume of residual oil delivered in the shipment;

d. A statement that the residual oil complies with the ASTM D396 specification for # 4 fuel oil;

e. The sulfur content of the residual oil;

f. Documentation for sampling of the residual oil indicating the location of the fuel when the sample was taken; and

g. The method used to determine the sulfur content of the residual oil.

Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by the DEQ, may be used to determine compliance with the fuel specification stipulated in Condition 22. Exceedance of these specifications may be considered as credible evidence of the exceedance of emission limits.
(9 VAC 5-80-850, 9 VAC 5-170-160, and 9 VAC 5-50-410)

24. **Visible Emission Limit** – Visible emissions from the exhaust stack of each non-NSPS boiler shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30 percent opacity as determined by the EPA Method 9 (Reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-850 and 9 VAC 5-50-80)

25. **Visible Emission Limit** – Visible emissions from the exhaust stack of the 12.55 MMBtu/hr NSPS boiler (CB 400-300) shall not exceed 10 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 20 percent opacity as determined by the EPA Method 9 (Reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-850, 9 VAC 5-50-260, and 9 VAC 5-50-410)

EMISSION LIMITS

26. **Emission Limits** – Emissions from the combined operation of the central mix concrete batch plants shall not exceed the limits specified below:

Particulate Matter (PM)	2.2 tons/yr
PM-10	1.0 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 4, 8, 9, and 30. (9 VAC 5-80-850 and 9 VAC 5-50-260)

27. **Emission Limits** – Emissions from the combined operation of the residual oil-fired boilers shall not exceed the limits specified below:

Particulate Matter (PM)	5.7 tons/yr
PM-10	4.9 tons/yr
Sulfur Dioxide	60.9 tons/yr
Nitrogen Oxides (as NO_2)	16.2 tons/yr
Carbon Monoxide	4.1 tons/yr
Volatile Organic Compounds	16.2 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 20 – 25, 30, and 31.
(9 VAC 5-80-850 and 9 VAC 5-50-260)

28. **Emission Limits** – Emissions from the coating application operations shall not exceed the limits specified below:

Volatile Organic Compounds	21.0 lbs/hr	35.1 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 18, 19, and 30. (9 VAC 5-80-850 and 9 VAC 5-50-260)

29. **Facility-wide Emission Limits** – Total emissions from the from the operation of the prestressed-precast concrete products facility shall not exceed the limits specified below:

Particulate Matter (PM)	7.9 tons/yr
PM-10	5.9 tons/yr
Sulfur Dioxide	60.9 tons/yr
Nitrogen Oxides (as NO_2)	16.2 tons/yr

Carbon Monoxide	4.1 tons/yr
Volatile Organic Compounds	51.3 tons/yr
Total Hazardous Air Pollutants	23.9 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 4, 8, 9, 12, 13, 15, 16, 18 – 25, 30, 31, 41, and 42.
(9 VAC 5-80-850 and 9 VAC 5-50-260)

RECORDS

30. **On Site Records** – The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, DEQ Tidewater Regional Office. These records shall include, but are not limited to:

    a. Annual combined production of concrete from the central mix batch plants, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months;

    b. Annual production of grout, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months;

    c. Annual throughput of steel wire cages, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months;

    d. Annual consumption of residual oil fuel, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months;

    e. All fuel supplier certifications for residual oil deliveries;

    f. Monthly and annual throughputs in gallons for each coating, epoxy, and chemical adhesive product used in the concrete pile coating and adhesive joining process. Annual throughputs shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months;

    g. Material Safety Data Sheets (MSDS) or other vendor information as approved by the DEQ showing the VOC content (in lb/gal) and the weight percent of HAPs (listed in Condition 42) for each non-thinned coating media, adhesive, thinner, reducer, and activator product used in the coating, pile joining, and clean-up operations;

h. Hourly, monthly, and annual throughput (in pounds or tons) of each HAP listed or subsequently approved under Condition 42, to verify compliance with the individual and total HAP emission limits in Conditions 29, and 41. Hourly HAP throughputs shall be calculated based on daily chemical product consumption (in gallons) divided by the number of hours used to apply chemical product. Annual throughputs shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months; and

i. Record logs of visible emissions observations, including the name of the observer, the date and time the observation was made, the presence of visible emissions or lack thereof, and the date and time of any corrective actions taken whenever visible emissions were observed, as required in Conditions 10, 14, and 17.

These records shall be available for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-80-850 and 9 VAC 5-50-50)

31. **Semi-Annual Reports –** The permittee shall submit fuel quality reports to the Director, DEQ Tidewater Regional Office within 30 days after the end of each semi-annual period for the residual oil delivered at this facility which is used by the 12.55 MMBtu/hr NSPS boiler (CB 400-300, JFK area #2). If no shipments of residual fuel oil were received during the semi-annual period, the semi-annual report shall consist of the dates included in the semi-annual period and a statement that no residual oil was received during the semi-annual period. If residual oil was received during the semi-annual period, the reports shall include the following:

a. Dates included in the semi-annual period;

b. A copy of all fuel supplier certifications for all shipments of residual oil received during the semi-annual period or a semi-annual summary from each fuel supplier that includes the information specified in Condition 23 for each shipment of residual oil;

c. A signed statement from the owner or operator of the facility that the fuel supplier certifications or summaries of fuel supplier certifications represent all of the residual oil consumed or received at the facility; and

d. One copy of the semi-annual report shall be submitted to the U.S. Environmental Protection Agency at:

Associate Director
Office of Air Enforcement (3AP13)
U.S. Environmental Protection Agency, Region III
(Attn: NSPS, Dc Coordinator)
1650 Arch Street
Philadelphia, PA 19103-2029

(9 VAC 5-80-850, 9 VAC 5-170-160, and 9 VAC 5-50-50)

NOTIFICATIONS

32. **Initial Notifications** – The permittee shall furnish written notification to the DEQ Tidewater Regional Office of:

    a. The actual date on which construction/installation of the central mix concrete batch plant commenced within 30 days after such date;

    b. The anticipated start-up date of the central mix concrete batch plant, postmarked not more than 60 days nor less than 30 days prior to such date;

    c. The actual start-up date of the central mix concrete batch plant within 15 days after such date.

    d. The anticipated start-up date for commencement of the dismantling and removal of the BCP #A central mix concrete batch plant, postmarked not more than 60 days nor less than 30 days prior to such date; and

    e. The actual start-up and completion dates for the dismantling and removal of the BCP #A central mix concrete batch plant within 15 days after such dates.

    (9 VAC 5-50-50, 9 VAC 5-80-1180, and 9 VAC 5-80-850)

GENERAL CONDITIONS

33. **Right to Entry** – The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:

    a. To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;

    b. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;

    c. To inspect at reasonable times any facility, equipment, or process subject to the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and

    d. To sample or test at reasonable times.

    For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.
    (9 VAC 5-170-130 and 9 VAC 5-80-850)

34. **Notification for Facility or Control Equipment Malfunction** – The permittee shall furnish notification to the Director, DEQ Tidewater Regional Office of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by facsimile transmission, telephone, or telegraph. Such notification shall be made as soon as practicable but no later than four (4) daytime business hours after the malfunction is discovered. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the breakdown, within two (2) weeks of discovery of the malfunction. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Director, Tidewater Regional Office in writing.
    (9 VAC 5-20-180 C and 9 VAC 5-80-850)

35. **Violation of Ambient Air Quality Standard** – The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.
(9 VAC 5-20-180 I and 9 VAC 5-80-850)

36. **Maintenance/Operating Procedures** – At all times, including periods of start-up, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.
(9 VAC 5-50-20 E and 9 VAC 5-80-850)

37. **Permit Invalidation** – The portions of this permit for the construction and installation the central mix concrete batch plant equipment shall become invalid, unless an extension is granted by the DEQ, if:

    a. A program of continuous construction/installation is not commenced within the latest of the following:

        i. Eighteen months from the date of this permit being issued;

        ii. Nine months from the date that the last permit or other authorization was issued from any other governmental entity;

        iii. Nine months from the date of the last resolution of any litigation concerning any such permits or authorization; or

    b. A program of construction/installation is discontinued for a period of 18 months or more, or is not completed within a reasonable time, except for a DEQ approved period between phases of a phased construction project.

    (9 VAC 5-80-850, 9 VAC 5-80-1180, and 9 VAC 5-80-1210)

38. **Permit Suspension/Revocation** – This permit may be suspended or revoked if the permittee:

    a. Knowingly makes material misstatements in the permit application or any amendments to it;

    b. Fails to comply with the conditions of this permit;

    c. Fails to comply with any emission standards applicable to a permitted emissions unit, ;

    d. Causes emissions from the stationary source which result in violations of , or interfere with the attainment and maintenance of, any ambient air quality standard; or

    e. Fails to operate in conformance with any applicable control strategy, including any emission standards or emission limitations, in the State Implementation Plan in effect at the time an application for this permit is submitted.

    (9 VAC 5-80-1010)

39. **Change of Ownership** – In the case of a transfer of ownership of a stationary source, the new owner shall abide by any current permit issued to the previous owner. The new owner shall notify the Director, DEQ Tidewater Regional Office of the change of ownership within 30 days of the transfer.
(9 VAC 5-80-940)

40. **Permit Copy** – The permittee shall keep a copy of this permit on the premises of the facility to which it applies.
(9 VAC 5-80-860 D)

STATE-ONLY ENFORCEABLE REQUIREMENTS

This permit section is included pursuant to 9 VAC 5-80-1120 F and is not required under the federal Clean Air Act or under any of its applicable federal requirements. This section is only enforceable by the Commonwealth of Virginia State Air Pollution Control Board and its designees.

EMISSION LIMITS

41. **HAP Emission Limits** – HAP emissions from the pile coating and joining process shall not exceed the limits specified below:

Methanol	15.8 lbs/hr	9.5 tons/yr
Styrene	10.7 lbs/hr	8.8 tons/yr
Xylene (isomers & mixture)	2.2 lbs/hr	5.6 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 18 and 19.
(9 VAC 5-80-850 and 9 VAC 5-50-260)

42. **Hazardous Air Pollutants** – The permittee is limited to the use of the following volatile hazardous air pollutants (HAPs) in the coatings and adhesives applied in the concrete pile coating and joining process:

Volatile HAP	CAS Number
Methanol	67561
Methyl ethyl ketone	78933
Styrene	100425
Xylene (isomers & mixture)	1330207

The permittee may use additional HAPs (listed in Attachment A) in the concrete pile coating and joining process under 9 VAC 5 Chapter 60, Article 5 without obtaining a new permit provided the following conditions are met:

a. Notification shall be given to the DEQ Tidewater Regional Office. Such notification shall be made within fifteen (15) days after the use of additional HAPs and shall include identification of the HAP, the date the HAP was first used and the anticipated maximum throughput of that HAP in pounds per hour and tons per year. Additional details of the notification should be arranged with the DEQ Tidewater Regional Office;

b. The permittee shall operate the facility in compliance with 9 VAC 5 Chapter 60, Article 5 for all HAPs;

c. The permittee shall not use any HAP which would make the facility subject to federal emission standards in 40 CFR Part 61 or 40 CFR Part 63; and

d. If a permit is required, failure to obtain the permit prior to the change in process formulation or the use of any additional HAP may result in enforcement action.

(9 VAC 5-80-850, 9 VAC 5-170-160, and 9 VAC 5-60-340)